Worksheet 3 Internet security

Task 1

You are responsible for the network security of a new company with one office. It is suggested that a firewall and proxy server are required for the new system.

Describe the role of a firewall in providing security.

What function does a proxy server serve, and can it provide additional security?

Task 2

All employees use their own devices in the office.

The company owner wants to make new employees aware of the best practices for preventing the intrusion of malicious software into the network.

Write an overview that can be used to educate these new employees. You should explicitly mention:

- Preventing viruses
- Preventing worms
- Minimising the chance of phishing

Task 3
Social engineering is 'blagging' or tricking an individual into divulging their confidential details or information. The two email examples below may have come from confidence tricksters with malicious intent.

- What signs can you spot within these phishing emails that indicate they may not be from the advertised sender?

- What might happen if you clicked on one of the links or opened the attachment? Trojans, or other malware may infect your computer.

Task 4
A University wants to set up and run a course on 'How to create a computer virus'. Discuss whether this is ethical.